REMARKS

[0006] Applicant respectfully requests reconsideration and allowance of all of the

claims of the application. The status of the claims is as follows:

Claims 1-3, 6-11, 13-14, and 44 are currently pending

· Claim 12 is canceled herein

· No claims are amended herein

New claim 45 is added herein

[0007] Furthermore, new claim 45 is fully supported by the Application, and therefore

does not constitute new matter. Support for this new claim is found in the specification

at least at page 5 line 5, page 9 line 13, and claims 1, 2, 3, 6 and 7. New claim 45

allowable over the cited documents of record at least because claims 1, 2, 3, 6 and 7

are allowable.

Cited Documents

[0008] The following documents have been applied to reject one or more claims of

the Application:

• Abu El Ata: Abu El Ata, U.S. Patent No. 6,311,144

• Graupner: Graupner, U.S. Patent No. 7,035,930

Claims 1-14 and 44 Are Non-Obvious Over Graupner in view of Abu El Ata.

[0009] Claims 1-14 and 44 stand rejected under 35 U.S.C. § 103(a) as allegedly

being obvious over Graupner in view of Abu El Ata. Applicant respectfully traverses the $\,$

rejection, and points out that claims 4 and 5, while included by the Office in this Office

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Action heading, were canceled in a prior Office Action response and therefore are no ...

longer pending.

Independent Claim 1

[0010] Applicant submits that the Office has not made a prima facie showing that

independent claim 1 is obvious in view of the combination of Graupner and Abu El Ata.

Applicant submits that the combination of Graupner and Abu El Ata does not teach or

suggest the following features of this claim (with emphasis added):

 receiving, by a system validation computing device configured to facilitate validation of a system being designed prior to attempting to

deploy the system, a description of the system being designed to be

used in an environment of a data center but not yet deployed to the

data center:

receiving, by the system validation computing device, a description of

an environment that simulates a target-deployment environment,

wherein the target-deployment environment is the data center in which

the system is to be deployed; and

• using, by the system validation computing device, both of the

received descriptions to validate the system against the environment while the system is being designed and prior to

attempting to deploy the system to the data center.

[0011] Claim 1 recites in part, "receiving, by a system validation computing device

configured to facilitate validation of a system being designed prior to attempting to

deploy the system, a description of the system being designed to be used in an

environment of a data center but not yet deployed to the data center." The Office states

that, "Graupner teaches a method comprising: receiving, by a system validation

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computing device, a description of a system being deployed (Col. 2. line 65 - Col. 3.

line 1)." (Office Action, page 2). However, the claim recites, "configured to facilitate

validation of a system being designed prior to attempting to deploy the system." Claim

1 also recites "designed to be used in an environment of a data center but not yet

deployed to the data center." Graupner describes, "service domain 102 refers to the

model layers that describe the services provided by the software application and the

software components that provide the services." (Graupner Col. 2, line 65 - Col. 3, line

1). However, Graupner makes no mention of "a system validation" or "a system being

designed prior to attempting to deploy the system," as claim 1 recites.

Graupner "provides a computer-based method and framework for identifying

optimal allocations of computing resources in a complex, distributed data processing

environment." (Graupner, Col. 2 lines 7-10 "Summary of the Invention"). "Identifying

optimal allocations," as Graupner teaches, is not the same as "a system validation" as

recited in claim 1.

[0013] The Office goes on to state that, "Graupner does not explicitly indicate that the

system is still being designed, and has yet to be deployed in any environment." (Office

Action, page 3). Applicant appreciates the Office's distinction of "in any environment" as

opposed to the claim language reciting, "an environment of a data center." However, the Office states further that, "Abu El Ata teaches a modeling system that includes

modeling and simulating systems that are being designed and proposed, and prior to

any deployment of the actual application and system (Col. 3, lines 39-45), and the modeled and deployed system includes among other embodiments, database centers

(Col. 6, lines 24-27; Col. 19, lines 13-42)." (Office Action, page 3).

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[0014] Abu El Ata teaches that it is "for designing an information system for a use in an organization. The system receives descriptive input about a prospective information

system to be designed, validates this information, then transforms the descriptive input

into quantitative input, which is used to construct one or more models of an information

system." (Abu El Ata, Col 3, lines 39-45). The Office seems to be equating the

"descriptive input" of Abu El Ata with "a description of the system being designed to be

used in an environment of a data center," and "a description of an environment that

simulates a target-deployment environment," as claim 1 recites. However, these are not

the same.

[0015] Abu El Ata teaches: "The system includes an input module for receiving descriptive input about a proposed information system, a construction module for constructing an initial model and additional models of the information system..." (Abu El Ata Col. 2, lines 18-22). "The input module derives validated input from the descriptive input, and the construction module derives quantitative input from the validated input." (Abu El Ata Col. 2, lines 25-28). "Once data (descriptive input col 4 line 1) has been validated, then the input module sends the validated data to the construction module." (Abu El Ata Col. 6 lines 42-44). Furthermore, "the system includes a library including models of hardware and software components, and the construction module uses the hardware and software component models selected from the library when constructing the information system models." (Abu El Ata, Col. 2 lines 32-36). In summary, Abu's descriptive input is validated, then sent to the construction module where the hardware and software components are selected. This is not the same as claim 1 which recites,

"receiving, by a system validation computing device configured to facilitate validation of

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a system being designed...a description of the system being designed" and "receiving,

by the system validation computing device, a description of an environment that simulates a target-deployment environment" and "using, by the system validation

computing device, both of the received descriptions to validate the system against the

computing device, both of the received descriptions to validate the system against the

environment."

[0016] Consequently, the combination of Graupner and Abu El Ata does not teach or

suggest all of the elements and features of this claim. Accordingly, Applicant

respectfully requests that the rejection of this claim be withdrawn.

Dependent Claims 2-3

[0017] Claims 2-3 ultimately depend from independent claim 1. As discussed above,

claim 1 is allowable over the cited documents. Therefore, claims 2-3 are also allowable

over the cited documents of record for at least their dependency from an allowable base

claim. These claims may also be allowable for the additional features that each recites.

Independent Claim 6

[0018] Applicant submits that the Office has not made a prima facie showing that

independent claim 6 is obvious in view of the combination of Graupner and Abu El Ata.

Applicant submits that the combination of Graupner and Abu El Ata does not teach or

suggest the following features of this claim (with emphasis added):

accessing an application description that describes an application in

the process of being designed to be used in an environment of a data

center, by a program running on the one or more processors; and

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validating the application, using the application description,

against a simulated environment, the environment comprising a

description of the data center and prior to deployment to the data

center.

[0019] Claim 6 recites in part, "validating the application, using the application

description, against a simulated environment, the environment comprising a description

of the data center and prior to deployment to the data center." The Office cites

Graupner (Col 10, line 60 - Col. 11, line 1), as teaching this element. (Office Action,

pages 3). Graupner describes "the optimization process follows the following iterative

pattern: 1. generate a possible solution; 2. evaluate the solution according to

constraints and an optimization goal or policy; 3. If the evaluated solution is better than

prior solutions, replace the worst solution in the solution pool with the generated

solution; and 4. repeat until some termination criteria applies." (Graupner, col 10 line 57

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col 11 line 1).

[0020] It appears the Office is equating the optimization process of Graupner with

"validating the application" as recited in claim 6. However, the "optimization" of

Graupner is not the same as the "validating" of claim 6. Graupner describes, "method

and framework of generating an optimized deployment of software applications in a

distributed computing environment..." (Graupner, title). Claim 6 recites, "validating the

application using the application description, against a simulated environment," which,

as a person who is skilled in the art would recognize, is not the same as "generating an

optimized deployment of software applications," as taught by Graupner.

[0021] Furthermore, Graupner suggests generating, evaluating, replacing, and

repeating until terminating, as Graupner is optimizing by "following an iterative pattern."

(see Graupner as referred to above in [0021]). Claim 6 simply recites "accessing an

application description" and "validating the application, using the application

description."

[0022] The Office goes on to state that, "Graupner does not explicitly indicate that the

system is still being designed, and has yet to be deployed in any environment. Abu El

Ata teaches a modeling system that includes modeling and simulating systems that are

being designed and proposed, and prior to any deployment of the actual application and

system (Col. 3, lines 39-45) and the modeled and deployed system includes other

embodiments, database centers (Col. 6, lines 24-27; Col 19, lines 13-42)." (Office

Action, pages 3-4).

[0023] Abu El Ata teaches that it is "for designing an information system for a use in

an organization. The system receives descriptive input about a prospective information

system to be designed, validates this information, then transforms the descriptive input

into quantitative input, which is used to construct one or more models of an information

system." (Abu El Ata, Col 3, lines 39-45). Abu El Ata goes on to suggest, "Software

components can include models of software programs, software applications, and

software database management systems." (Abu El Ata Col. 6, lines 24-26). And "In

addition, the input 12 should include the distribution of applications or application subcomponents on computer servers (in a network of clients computers and server

computers), data distribution on servers, network topology and protocols and network

traffic (size and frequency of messages). The input should also include the description

and measurements of relations between business transactions and functions, business

functions and application subcomponents, and application subcomponents and system

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transactions. For the network of the real system, the input should identify the

parameters of the network components, such as the capacities of the network interface

boards (kbps), the capacities of leased lines (kbps), and the characteristics of the

routers (such as number of packets per second priorities, and compression). For the

hardware configuration of the real system, the input should describe the computer

servers, including server types, links between them, and partition mechanisms. The

input should include data on the disk subsystems, such as channels, controllers, strings,

devices, types, and physical characteristics. The input should also describe

characteristics of the computer memory, such as hierarchy, service discipline, and other

characteristics. The input should also describe the relationship between application

subcomponents and job names or process names in order to crate application groups.

For relational databases, the input should provide the same types of information as

described for designing a new information system in connection with FIG. 7." (Abu El

Ata, Col. 19, lines 13-42).

[0024] In the paragraph prior to Abu El Ata's Col. 19, line 13, Abu El Ata teaches, "The descriptive input 12 required for the diagnostic or re-engineering process shown in

FIG. 9 is similar to the descriptive input 12 required for the design of a new information

system, as described in connection with FIG. 7." (Abu El Ata, Col. 19, lines 9-12).

[0025] Consequently, the combination of Graupner and Abu El Ata does not teach or

suggest all of the elements and features of this claim. Accordingly, Applicant

respectfully requests that the rejection of this claim be withdrawn.

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Dependent Claims 7-10

[0026] Claims 7-10 ultimately depend from independent claim 6. As discussed

above, claim 6 is allowable over the cited documents. Therefore, claims 7-10 are also

allowable over the cited documents of record for at least their dependency from an

allowable base claim. These claims may also be allowable for the additional features

that each recites.

Independent Claim 11

[0027] Applicant submits that the Office has not made a prima facie showing that

independent claim 11 is obvious in view of the combination of Graupner and Abu El Ata.

Applicant submits that the combination of Graupner and Abu El Ata does not teach or

suggest the following features of this claim (with emphasis added):

a simulator configured to simulate an environment of a data

center, the environment comprising a description of the data center,

and validate the software application against the environment prior to deployment to the data center, and return a result of the validation:

[0028] Claim 11 recites in part, "a simulator configured to simulate an environment of

a data center." The Office cites Graupner, (Col. 4, lines 39-50) as teaching this

element. (Office Action, pages 4.) Graupner describes, "the processing in a node is

simulated with a time delay that simulates the processing performed by the node and

expires when the node generates traffic." (Graupner, Col 4, lines 39-41).

[0029] Applicant fails to recognize how "a simulator configured to simulate an

environment of a data center", as recited in claim 11, is the same as Graupner's

simulating a node. And even if the Applicant, for the sake of argument, assumes that

"an environment of a data center" of claim 11 is the same as "a node", the purpose of

Graupner's simulation is not "to simulate the environment of a data center", as claim 11

recites, but to "simulate with a time delay that simulates the processing performed by

the node." "Simulating the processing performed" of Graupner is not the same as "a

simulator configured to simulate an environment of a data center," as recited by claim

11, wherein, "the environment comprises(ing) a description of the data center."

[0030] Consequently, the cited art does not teach or suggest all of the elements and features of this claim. Accordingly, Applicant respectfully requests that the rejection of

this claim be withdrawn.

[0031] Furthermore, the Office addresses "The apparatus being separate from the

data center and the apparatus being comprised, at least in part, of a computer hardware

component," (Office Action, page 4) which is a portion of Claim 11 that was removed in

the prior claim amendment (in a response dated June 19, 2009).

Dependent Claims 12-14

[0032] Claims 12-14 ultimately depend from independent claim 11. As discussed

above, claim 11 is allowable over the cited documents. Therefore, claims 12-14 are

also allowable over the cited documents of record for at least their dependency from an

allowable base claim. These claims may also be allowable for the additional features

that each recites

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Independent Claim 44

[0033] Applicant submits that the Office has not made a prima facie showing that

independent claim 44 is obvious in view of the combination of Graupner and Abu El Ata.

Applicant submits that the combination of Graupner and Abu El Ata does not teach or

suggest the following features of this claim (with emphasis added):

• a simulator configured to simulate an environment of a data center, the

environment comprising a description of the data center, to validate the

software application against the environment prior to deployment to the

data center, and to return a result of the validation;

[0034] Claim 44 recites in part, "a simulator configured to simulate an environment of

a data center, the environment comprising a description of the data center." The Office

cites Graupner, (Col. 4, lines 39-50) as teaching this element. (Office Action, pages 6.)

Graupner describes, "the processing in a node is simulated with a time delay that

simulates the processing performed by the node and expires when the node generates

traffic." (Graupner, Col 4, lines 39-41).

[0035] Applicant fails to recognize how "a simulator configured to simulate an

environment of a data center", as recited in claim 44, is the same as Graupner's

simulating a node. And even if the Applicant, for the sake of argument, assumes that

"an environment of a data center" of claim 44 is the same as "a node", the purpose of

Graupner's simulation is not "to simulate the environment of a data center", as claim 44

recites, but to "simulate with a time delay that simulates the processing performed by

the node." "Simulating the processing performed" of Graupner is not the same as "a

simulator configured to simulate an environment of a data center." as recited by claim

44, wherein, "the environment comprises(ing) a description of the data center."

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[0036] Consequently, the combination of Graupner and Abu El Ata does not teach or

suggest all of the elements and features of this claim. Accordingly, Applicant

respectfully requests that the rejection of this claim be withdrawn.

[0037] Furthermore, the Office addresses "the software application being designed

when the one or more documents are loaded," (Office Action, page 7) which is a portion

of Claim 44 that was removed in the prior claim amendment (in a response dated June

19, 2009).

Expectation that the Next Action will not be Final

[0038] Applicant submits that all pending claims are in condition for allowance. If the

Office feels otherwise and believes that another action on the merits is necessary, then

Applicant expects such an action would be Non-Final.

[0039] According to 37 CFR § 1.113 and MPEP 706.07, the "examiner should never

lose sight of the fact that in every case the applicant is entitled to a full and fair hearing,

and that a clear issue between applicant and examiner should be developed, if possible,

before appeal." "The invention as disclosed and claimed should be thoroughly

searched in the first action and the references fully applied."

respectfully submits that finality would be premature for the next action for the following

reasons:

This Office Action failed to address specific claimed aspects that the

Applicant has previously indicated as differing from the cited art.

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No Action Necessitating New Grounds for Rejection or New Search

[0041] Herein, Applicant does not and has not amended independent claims 1, 6, 11

and 44. Consequently, one or more claims presented herein have already been

examined in the Office Action. Furthermore, Applicant explains herein why these

already-examined claims differ from the cited art of record. Therefore, in accordance

with 37 CFR \S 1.113 and MPEP 706.07(a), finality for the next action would be

premature.

Failure to Address Aspects of Claims Previously Identified as Distinguishing

[0042] Applicant submits that the Office has not yet addressed specific claim

language that the Applicant submits distinguishes the claims from the cited references.

It is not that the Office disagreed about whether specific claim language distinguishes

the claims from the cited references. Rather, it appears that the Office has not

addressed whether specific claim language distinguishes the claims from the cited

references.

[0043] Examples of such specific claim language referenced by the Applicant, but

never addressed by the Office, may be found at the following locations in Applicant's

prior response that is dated June 19, 2009:

• p. 2, claim 1: "configured to facilitate validation of system being

designed prior to attempting to deploy the system," "designed to be used in an environment of a data center but not yet deployed to the

data center." "wherein the target deployment environment is the data

center," and "to the data center."

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 p. 3, claim 6: "to be used in an environment of a data center," and "environment, the environment comprising a description of the data

center

 p. 5 claim 11: "apparatus for facilitating validation of a software application being designed to be used in an environment of a data

center and prior to attempting to deploy the software application to one

area of the data center," "the environment comprising a description of

the data center"

• p. 19 claim 44: "to be used in an environment of a data center," and "the

environment comprising a description of the data center"

[0044] This list is not intended to be exhaustive. Rather, it is intended to illustrate

examples of distinguishing claim language discussed in the Applicant's prior response,

but not addressed by the Office in this Action and in its prior Action.

[0045] According to the reasons and facts given above and to 37 CFR § 1.113 and

MPEP 706.07, Applicant respectfully submits that no clear issues have been developed

between the Applicant and the Office for each pending claim so that such issues would

be ready for appeal if the next action is made final. Accordingly, Applicant respectfully

requests that the next action—if not a Notice of Allowance—be Non-Final.

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Conclusion

[0046] Applicant submits that all pending claims are in condition for allowance. Applicant respectfully requests reconsideration and prompt issuance of the application. If any issues remain that prevent issuance of this application, the Examiner is urged to contact the undersigned representative for the Applicant before issuing a subsequent Action.

Respectfully Submitted,

Lee & Haves, PLLC Representative for Applicant

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Dated: ____10/09/2009